Agriculture and Forestry Technical Work Group

Draft Policy Option: A9. Programs to Support Local Farming/Buy Local

1. Policy Description:

   a. Modification, enhancement and further development of local farm programs
       employed in Arizona can help reduce emissions of greenhouse gases. Linking a
       reduction of emissions from the combustion of fossil fuels with the
       implementation of local programs that reduce vehicle miles traveled and fuel
       usage can mitigate GHG emissions in both the urban and rural areas of Arizona.

   b. Policy Design Parameters:

      i. Implementation level(s) beyond BAU: *For the existing programs in the
          business as usual scenario that are listed below, we need to describe how
          this policy goes beyond the actions of those programs. We need to provide a
          goal or estimate of what this policy will achieve beyond the business as
          usual scenario. For example, the policy will offset locally-sold produce
          shipped from out of state by X%. Our starting point could be a modest goal,
          say 10 or 20%.* The object of expanding local farm programs and
          coordinating existing community programs will increase consumption of
          agricultural products from sources within Arizona. In addition to the
          benefits of reducing fuel usage, transportation costs and air pollutant
          emissions, consuming locally grown foods directly supports Arizona
          producers, consumers and retailers.

      ii. Timing of implementation: *For the above implementation level, when will it
           be achieved? E.g. some fraction by 2010, the rest by 2020 or 2050.*
           Expansion, coordination, development and implementation of local farm
           programs for the years 2006 through 2020 necessitates marketing,
           promotion and financial support.

      iii. Implementing parties: Agricultural producers, grocery industry,
            communities, government and others in Arizona.

      iv. Other: Expanding access and availability of safe, wholesome, healthy and
           affordable foods will move Arizona's agricultural industry toward
           sustainability.

   c. Implementation Mechanism(s): Indicate which mechanisms are to be used, and
       describe the specific approach that is proposed

      i. Information and education - X

      ii. Technical assistance

    iii. Funding mechanisms and or incentives - X

    iv. Voluntary and or negotiated agreements - X

    v. Codes and standards

    vi. Market based mechanisms - X

    vii. Pilots and demos - X

    viii. Research and development - X

    ix. Reporting

    x. Registry

    xi. Other?

2. <u>BAU Policies/Programs, if applicable:</u>

    a. Some of the farm programs instituted in Arizona are:

- Community Supported Agriculture

- Farmers Markets – North American Farmer's Direct Marketing Association (NAFDMA)

- Farmers' Market Nutrition Program (FMNP)

- Western United States Agriculture Trade Association

- Arizona Grown Program

- The 5-A-Day for Better Health Program

- U-Pick Programs

- Greenhouse Production

- Agritainment Business

3. <u>Types(s) of GHG Benefit(s):</u>

    a. CO_2: *Savings occur as a result of shorter haul distances and modification of freight modes (air to ground), which would reduce diesel fuel use.*

    b. CH_4: *Not applicable*

    c. N_2O: *Reductions in diesel fuel use result in a reduction in N20 emissions.*

    d. HFC's, SFC's: *Probably are also reduced due to the need for less refrigeration of products that are transported over shorter distances*

    e. Black Carbon: *Reductions in diesel fuel use result in a reduction in BC emissions.*

4. Types of Ancillary Benefits and or Costs, if applicable:

   a. *Reduction in criteria and toxic air pollutants.*

   b. Collaboration of local farm programs with other food programs provides nutritional education and increases the consumption of healthy foods for all Arizonans.

   c. Educate adults and children, about Arizona agriculture and agriculture's impact on their life.

5. Estimated GHG Savings and Costs Per MMTCO$_2$e:

   a. Summary Table of:

      i. GHG potential in 2012, 2020, 2050

      ii. Net Cost per MMTCO$_2$e in 2012, 2020, 2050

   b. Insert Excel Worksheet showing summary GHG reduction potential and net cost

6. Data Sources, Methods and Assumptions:

   a. Data Sources

   b. Quantification Methods

   c. Key Assumptions

7. Key Uncertainties if applicable:

   a. Benefits

   b. Costs

8. Description of Ancillary Benefits and Costs, if applicable:

   a. Description of issue #1

   b. Description issue #2

   c. Etc.

9. Description of Feasibility Issues, if applicable:

   a. Description of issue #1

    b. Description of issue #2

    c. Etc.

10. <u>Status of Group Approval:</u>

    a. Pending

    b. Completed

11. <u>Level of Group Support:</u>

    a. Unanimous Consent

    b. Supermajority

    c. Majority

    d. Minority

12. <u>Barriers to consensus, if applicable (less than unanimous consent):</u>

    a. Description of barrier #1

    b. Description of barrier #2

    c. Etc.